

## Receiving Report

Date: 09/08/06

Batch No: M112374

Supplier: Ymagu

Dart P/O: 10117

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☐

Release Note Attached: Yes ☐ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☐ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection S ☐ N/A ☐  
 Work Order 09/08/21 N/A ☐

### Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 CY

Production/Admin:

Date

Received/Costing

Initial

08/09/19  
RCO 10117  
CY

Location



**Magna Stainless**  
5775 Kieran St, Saint-Laurent QC H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

# INVOICE

Pg 1 of 1 I014724

SOLD TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

RECEIVED

JUL 31 2009

SHIP TO:

METCOR  
560 BOUL ARTHUR SAUVE  
SAINT-EUSTACHE, QC  
J7R 5A8

MTR:Y

INVOICE DATE:	07/27/09
ORDER DATE:	07/22/09
SHIP DATE:	07/27/09
ORDER NUMBER:	W016184
PURCHASE ORDER:	P010117

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		2	PC	STAINLESS - LB 17-4 PH 3.937 X 4.750 X 9' L029745 2 PC/1,201 LB PLEASE CUT BAR IN HALF	2 UN	4,310.00	8,620.00
		4	PC	STAINLESS ROUNDS SRB 17-4 ANN 1" x R/L L025718 12'7" 4 PC/134 LB PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643	4 UN	135.00	540.00
		2	PC	SRB 17-4 ANN 1-3/8" x R/L L029746 12'5" 2 PC/124 LB PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643	2 UN	280.00	560.00

07/28/09 13:22:01

Merchandise:	9,720.00
Surcharges:	
No Tax Costs:	
GST	486.00
PSTQ	765.45
Total Due:	10,971.45

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471  
G.S.T. # 881565899 RT0001

## Purchase Order Receipt Listing

Page 1 of 1

August 19, 2009 3:06:10 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO10117 All Receipt Dates All Line Item Types

All Item ID/GL/WOs    All Rec. Employees    All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna	Stainless							
PO10117	1		M174PH-H900B3.937X4.750	f	7/27/09	8/19/09	19.0277	\$478.89	0.0000	0	\$9,112.18
CAD	No		17-4SS Bar H900-3.937x4.750 112374	f	18.0000	LAVO01		\$9,112.18	0.0000	0	
	2		M174PH-H900R1.000	f	7/22/09	8/19/09	44.0000	\$13.50	0.0000	0	\$594.00
	No		17-4SS H900 ROUND BAR 1.00 112374	f	40.0000	LAVO01		\$594.00	0.0000	0	
	3		M174PH-H900R1.375	f	7/22/09	8/19/09	24.0000	\$28.00	0.0000	0	\$672.00
	No		17-4 SS H900 ROUND BAR 1.375 112374	f	20.0000	LAVO01		\$672.00	0.0000	0	
Total Received Quantity:											87.0277
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$10,378.18
Total Balance Due Quantity:											0.0000



# Magna Stainless

3775 Kieran St. Saint-Laurent, Quebec H4S 0A3  
Phone: (514) 339-1211, Watts: 1-800-363-6646 Fax: (514) 339-1105

## PACKING LIST

1014724

Page: 1 of 1

SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY

K6A 1K7

Contact: LINDA

ON

SHIP TO:  
METCOR  
560 BOUL ARTHUR SAUVE

SAINT-EUSTACHE, QC

J7R 5A8

Ship Terms: PREPAID



MTR-Y

SPECIAL INSTRUCTIONS

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERVICK BLAIS	(613) 632-5200	(613) 632-1058	P010117	
Sales Order	Terms	Ship Via		Date Ordered	Date Required	Date Shipped
W016184	NET 30 DAYS	NTR-R-557065-L		07/22/09	07/27/09	07/27/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
2		PC	STAINLESS - LB 17-4 PH 3.937" X 4.750" X 9' 1,201 LB / 2 PC	L029745	35070 253518	2
			PLEASE CUT BAR IN HALF			2
4		PC	STAINLESS ROUNDS GRB 17-4 ANN 1" X R/L 12.7" 134 LB / 4 PC	L025718	247478	4
			PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643			4
2		PC	GRB 17-4 ANN 1-3/8" X R/L 12.5" 124 LB / 2 PC	L029746	G15282	2
			PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643			2
Total weight						1,459 LB

Received by:

Date:

Signature:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO10117

Purchase Order Date 7/22/09

PO Print Date 7/22/09

Page Number 1 of 1

Order From :

VC-MAG002

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174PH-H900B3.937X4.750 C209108107	17-4SS Bar H900- 3.937x4.750 3.9x4.810	7/27/09 Rec'd 19.3333 Yes	18.00 f	Epic collect	\$478.8900	\$8,620.02
2	M174PH-H900R1.000 rec'd 48 C209108107	17-4SS H900 ROUND BAR 1.00 44 total	7/22/09 Yes	40.00 f	Epic collect	\$13.5000	\$540.00
3	M174PH-H900R1.375 rec'd 24 C209108107	17-4 SS H900 ROUND BAR 1.375 24 total	7/22/09 Yes	20.00 f	Epic collect	\$28.0000	\$560.00

Special Inst: ALL ABOVE: 17-4PH cond. H900  
PER AMS 5643  
PLEASE SHIP ALL ABOVE TO  
METCOR INC  
560 BOUL. ARTHUR SAUVE  
SAINT-EUSTACHE, QC  
J7R 5A8 (450-491-5498)  
SHIP VIA EPIC EXPRESS OUR  
ACCT # 4300450343

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

POSITIVE RECALL

EFFECTIVE 7/22/09

RELEASED 7/22/09

AUTH 6/1  
DATE 7/22/09



PO Total:

\$9,720.02

Change Nbr: 2

Change Date: 7/22/09

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required when applicable

**L Lacelle**

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**From:** Eryck Blais [eblais@magnastainless.com]  
**Sent:** July 22, 2009 1:14 PM  
**To:** 'L Lacelle'  
**Subject:** RE: rfq

THANK YOU  
ERYCK

---

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** Wednesday, July 22, 2009 1:09 PM  
**To:** Eryck Blais  
**Subject:** RE: rfq

Hi Eryck,

We will take the 2 x 9' (3.937 x 4.750) THAT IS O.K  
We also require 17-4PH H900 round bar 1.375, approx 20' 2 PCS 280.00 NOT H900  
Please advise asap...and could you ship this stuff to metcor tomorrow? I CAN SHIP TO METCOR ON MONDAY  
NEED ORDER TODAY BY 2:30 MAT'L IS IN ARE TOR BRANCH

Thx  
Linda

---

**From:** Eryck Blais [mailto:eblais@magnastainless.com]  
**Sent:** July 22, 2009 9:38 AM  
**To:** 'L Lacelle'  
**Subject:** RE: rfq

HI LINDA

NO IT DOES NOT MARK H900 YOU HAVE TO SEND IT TO METCOR  
ERYCK

---

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** Wednesday, July 22, 2009 9:24 AM  
**To:** Eryck Blais  
**Subject:** RE: rfq

Does the bar read H900 on it? They did last time? Otherwise please ship to metcor  
Thx  
LL

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**From:** Eryck Blais [mailto:eblais@magnastainless.com]  
**Sent:** July 22, 2009 9:18 AM  
**To:** 'L Lacelle'  
**Subject:** RE: rfq

7/22/09

YES IT WOULD BE FASTER WE WOULD SHIP IT FOR YOU AT METCOR  
ERYCK

---

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** Wednesday, July 22, 2009 9:09 AM  
**To:** Eryck Blais  
**Subject:** RE: rfq

IF IT'S FAST YES.

*cut to 4'*

---

**From:** Eryck Blais [mailto:ebblais@magnastainless.com]  
**Sent:** July 22, 2009 9:03 AM  
**To:** 'L Lacelle'  
**Subject:** RE: rfq

GOOD MORNING LINDA

ON THE H900 CHANTAL WOULD TELL US TO SHIP AT METCOR AND YOU WOULD TAKE CARE OF THE  
HEATING PROCESS TO H900.  
THANK YOU ERYCK

---

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** Tuesday, July 21, 2009 4:09 PM  
**To:** Eryck Blais  
**Subject:** rfq

Please advise price and delivery on:

40' x 17-4PH bar 3.937 x 4.750 OFFER 2 PCS 9' \$4310.00 EACH 1 PC 4' \$1915.00 EACH AND 2 PCS 12'  
LONG 5" SQ \$8095.00 EACH  
40' x 17-4PH round bar 1.000 4 PCS 135.00 EACH STK  
10' x 17-4PH bar .250 x 4.00 1 PC 225.00 EACH 5-7 DAYS  
10' x 17-4PH bar .375 x 1.00 1 PC 115.00 EACH 5-7 DAYS  
12' x 2024-T3 hex 1.375 1 PC \$385.00 EACH 7-10 Days  
12' x 2024-T3 round bar 1.750 1 PC 255.00 EACH 5-7 DAYS  
128sf x 2024-T3 sheet .080 3 PCS 345.00 EACH 5-7 DAYS  
128sf x 2024-T3 sheet .040 3 PCS 285.00 EACH 5-7 DAYS  
20' x 303 bar 1.500 x 3.000 2 PCS \$1165.00 EACH 5-7 DAYS  
40' x 303 round bar .500 4 PCS \$17.00 EACH STK  
40' x 304 bar .500 x 2.500 4 PCS 215.00 EACH TOR  
10' x 304 bar .625 x 3.00 1 PC 310.00 EACH TOR  
10' x 304 bar 1.750 x 1.750 \$685.00 EACH STK  
64sf x 304 sheet 12ga 2 PCS 260.00 EACH STK  
192sf x 304 sheet 16ga 6 PCS 158.00 EACH STK

Thank You,  
Linda Lacelle  
Production Manager  
Dart Aerospace Ltd

# Metcor Inc.

Metcor Inc.  
560, boul. Arthur-Sauvé  
St-Eustache (Québec) J7R 5A8  
Tél.: (450) 473-1884  
Fax Administration: (450) 491-5496  
Fax Production: (450) 491-6454

## Rapport d'inspection

Order	Load
149974	1

Customer 215  
DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY


ON K6A 1K7

Shipped To:  
DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

ON K6A 1K7

Customer PO / PO du Client	Customer Shipper No.	Material Type / Material	Mat'l Heat Code	Lot Number
10128		17-4PH		
<b>PROCESSING SPECIFICATIONS</b>				
AGE HARDEN				
CONDITION H 901				
SAS AMS 2759/3 REV E				
Requirement	Specified	Tests Performed	Test Results	
HARDNESS	40 - 47 HRC	28	43 - 45 HRC	
Quantity	Weight	Part Number / Part Description		
28	1447	BARRE RONDE 8 BARRES DE 7" + 18 BARRES DE 48" BAR 1" & 1.375" BARRE CARREE 4 BARRES DE 58" BAR 3.937 X 4.758 1 PALETTE		

### COMMENTS

INSPECTOR: <i>[Signature]</i>		DATE: 2009-08-04
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# FACSIMILE TRANSMITTAL

**MAGNA  
INOXYDABLE INC.**

TO/À: Chantal

3  
(613)

**FAX #:** 632 - 1053

co: Dart Aerospace

DATE: Aug. 20/09

RE: PO # 10117

**PAGES:** 6 + COVER  
+ COUVERTURE

**FROM/DE: BARRY MARTIN**

## QUALITY MANAGER/GÉRANT À LA QUALITÉ

**PHONE: (514) 339-1211**

**FAX: (514) 335-2202**

**E-MAIL: [bmartin@magnastainless.com](mailto:bmartin@magnastainless.com)**

**5775 Rue Kieran St-Laurent Quebec H4S 0A3 TEL: (514) 339-1211 1 (800) 363-6646**



# MILL CERTIFICATE OF QUALITY

DOM 5045 2.1.10  
EN 10204 2.1.10

PRINTED ON 10.02.2006  
NUMBER 1212011 REV 000  
SHEET 1.1 / 2  
DATE: 10.02.2006

PURCHASE ORDER: AC0835

CUSTOMER: QND 40 REV.3

GRADE: 124PH ASTMA 564  
ASTMA 495

PURCHASE METHOD: BASIC ELECTRIC FURNACE + A.O.D OUR REFERENCE: 22192

ITEM	SIZE	LENGTH	WEIGHT	MARK	WEIGHT	MARK
1	200MM Ø	4.000 / 6.000 MM	4.000 / 6.000 MM	36379	56379	56379

CHEMICAL COMPOSITION (% in mass):

	C	Mn	P	S	Si	Fe	Al	Co	Cr	EN
1. HEAT	0.051	0.60	0.020	0.0016	4.61	35.53	0.002	3.16	0.010	EN
2. HEAT	0.043	0.603	0.021	0.020	0.055	0.007	0.010	0.015	0.015	EN

MECHANICAL TESTING

YIELD STRENGTH (MPa) 36379

TENSILE STRENGTH (MPa) 56379

ELONGATION (%) 22

REDUCTION OF AREA (%) 50

OTHER REQUIREMENTS

THIS MATERIAL HAS MANUFACTURED ACCORDING OUR QUALITY SYSTEM APPROVED AND REGISTERED

ITEM	SIZE	LENGTH	WEIGHT	MARK	WEIGHT	MARK
1	200MM Ø	4.000 / 6.000 MM	4.000 / 6.000 MM	36379	56379	56379

SPECIFICATION CHECKED BY  
TONY HARRISON AND IS IN  
ACCORDANCE WITH OUR  
PURCHASE ORDER

DATE REGISTERED  
10/02/2006

ACERALAVA  
ACERIA DE ALAVA S.A.  
Director de Calidad e I+D

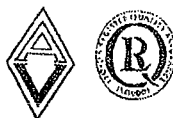
ACERALAVA  
ACERIA DE ALAVA S.A.  
Director de Calidad e I+D



Javier Valle Echazuri

CD-119  
M022189

# Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4  
Cliente / Destinatario/Purchaser/Client  
VALBRUNA CANADA LTD  
8724 HOLTGATE CRESCENT  
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/Manufacturer

Oggetto Prova: Polished Annealed Peeled  
Prüfgegenstand/Inspected/Finishing

Avviso di Spedizione: D-VI09000237  
Lieferschein/Packing list/B.L.

Ordine nr: 808001998 STOCK  
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
Erstellungszustand/Manufacturing process/Mode of elaboration

CERTIFICATO DI COLLAUDO  
ABNAHMEPRUEFZEUGNIS  
INSPECTION CERTIFICATE  
CERTIFICAT DE RECEPTION  
EN 10204 (2005), 3.1

Certificato nr: MEST706471/2009/  
Prüfung/Tessitura

Conferma ordine nr: EI08009960  
Works Order/Ref nr.

Marchio di Fabbrica:  
Zeichen des Lieferanten  
Trade mark  
Sigle du fournisseur



Punzone del Collaudatore:  
Stempel des Werkssachverständigen  
Inspector's stamp/Poligon du Tasseuseur

Specifiche:  
Anforderungen / Requirements / Exigences  
VAL CANADA 2 630 A  
ASTM A564 2004 S17400  
(Q) SEC.II PT.A 2007 EDITION

AMS 5643 R S17400

ASME SA564 2007 S17400 (Q)

Qualità: T-630  
Werkstoff/Grade/Qualität

Marca: V174

Markenbezeichnung/Brand/Marken

Punzonatura: T-630  
Kennzeichnung/Marking/Markierung

Pos. nr. Pos. nr. Nr. du poste	Oggetto Gegenstand Product description Désign. du produit	Dimensioni - in Abmessungen Dimension Dimensions	Tolleranza Tolérance Tolerance	Lunghezza - Ft Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr.
0070	Round	1,0000	484-06B	10 / 12	247478		5.739	830403280

Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind i. Anlage erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK  
Vermeidung Vermischung: Spezialanlytisch durchgeführt  
Antimischung bestätigt: OK  
Contrôle antiréactance: OK

Controllo visivo e dimensionale: soddisfa le esigenze:  
Beseitigung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Contrôle visuel et dimensionnel: satisfaisant

TEST	Provetta/Probe Specimen/Éprouvette Lap. diam. Spec. Diam. diam. Spec. Weld diam. Tensile Lap. diam. Spec. mm	°F	Posti Stagii Posten Stages II	Sneramento Sneramento Yield Stress Limite élastico	Sneramento Sneramento Yield Stress Limite élastico	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Einziehung Reduction of area Striction	Resistenza Bruchdehnung Tensile strength Résistance	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs dimensionnelles		min max								
A										363
										344

Sample cond. H900												344		
Tipo Trattamento Werkstoffbehandlung Heat Treatment Traitement Thermique		Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Haltezeit Retention Maintien	Tipo Trattamento Werkstoffbehandlung Heat Treatment Traitement Thermique		Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Haltezeit Retention Maintien	Tipo Trattamento Werkstoffbehandlung Heat Treatment Traitement Thermique		Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Haltezeit Retention Maintien
Aging		800 °F	AIR	60										
TEST	Provetta/Probe Specimen/Éprouvette Lap. diam. Spec. Diam. diam. Spec. Weld diam. Tensile Lap. diam. Spec. mm	°F	Posti Stagii Posten Stages II	Sneramento Sneramento Yield Stress Limite élastico Rp 0,2% K.S.I.	Sneramento Sneramento Yield Stress Limite élastico	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm K.S.I.	Allungamento Bruchdehnung Elongation Allongement E 4d %		Strizione Einziehung Reduction of area Striction RA %		Resilienza Kerbschlagenergie Impact Value Resilience		Durezza Härte Hardness Dureté HB	
	Valori richiesti 1 Anforderungen/Required values Valeurs dimensionnelles	min max		170	-	190	-	10	-	40	-	-	-	388 444
B	12,5	68	L	183		201		16		58				431
FERRITE DELTA %														

FERRITE DELTA % : 1,0

1) L=lunghezza/length, T=temperatura/temperature

## Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze / Coulee	min max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,15 0,45	0,040	0,030	5°C 0,45	-	-	-	-
C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Nb+Ta	P %	S %	Cb-Nb	Ta %				
247478	0,037	0,35	0,48	15,13	0,23	3,24	4,56	0,21	0,027	0,001	0,21	0,001			

Annealing temperature 1922 deg. F for 1 H / air.

Macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Vicenza, 09/01/09 VCO012 (Mod. IACER)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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# Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4  
 Cliente / Destination/Verbrauch/Client  
 VALBRUNA CANADA LTD  
 8724 HOLGATE CRESCENT  
 CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
 Hersteller/Hersteller/Usine producer

Oggetto Prove: Polished Annealed Peeled  
 Prüfgegenstand/Item inspected/Émissage

Avviso di Spedizione: D-VI09000237  
 Lieferanzeige/Packing list/V.L.

Ordine nr: 808001998 STOCK  
 Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
 Erzeugnisart/Alloying process/Mode d'élaboration

CERTIFICATO DI COLLAUDO  
 ABNAHMEPRUEFZEUGNIS  
 INSPECTION CERTIFICATE  
 CERTIFICAT DE RECEPTION  
 EN 10204 (2005) , 3.1

Certificato nr: MEST706471/2009/  
 Prüfung/Test/Essai

Conferma ordine nr: EI08009960  
 Werkst/Our Order/Pol or.

Marchio di Fabbrica:  
 Zeichen des Lieferwerkes  
 Trade mark  
 Sigle de l'usine productrice



Punzone del Collaudatore:  
 Stempel des Werkssachverständigen  
 Inspector's stamp/Pointon de l'essayeur



Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination  
 The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1.s.4.3 by TÜEV and LLOYD'S

Vicenza, 09/01/09 VCO012 (Mod. MCE/R)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M. Rizzotto <i>[Signature]</i>	Pagina - 2 di 2
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CERTIFICATE OF TESTS  
CERT SERIAL# 000681003

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

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01/30/09  
CUSTOMER/BESTELLER/CLIENT

6987 285  
SELLER/VERKÄUFER/VENDEURPAGE 1 OF 2

ASA ALLOYS DIV./ CSM INC.  
4311-92ND AVE.  
EDMONTON, ALBERTA  
T6B 3M7 ,CANADA

TALLEY METALS TECH, INC.  
ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE ,SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
077548-AG	TLY952201 L14967	01/30/09	992.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: G15282

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 17-4T3A CAP OF H900  
AMS 2303 REV E (10/ /01)  
AMS 2315 REV F (01/ /08)  
AMS 5643 REV R (02/ /08) (EXCEPT CD ROUND CHEM & MECH PROPS ONLY)  
ASTM-A484-06B  
ASTM-A564-04  
ASME-SA564 2007 EDITION

SIZE 1.375000 IN. ( 34.93 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM) 0.029 MN(XRF) 0.86 SI(XRF) 0.40 P (XRF) 0.019 S (COM) 0.026 CR(XRF) 15.36  
NI(XRF) 4.30 MO(XRF) 0.24 CU(XRF) 3.76 N (FUS) 0.028 CB(XRF) 0.24 TA(XRF) LT .01  
CB+TA 0.25

THIS HEAT MELTED BY THE ARC/AOD PROCESSES  
THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS  
OPERATIONS QUALITY PROGRAM MANUAL REVISION 27, DATED 1/08.  
MILL HEAT TREATMENT:

TYPE SOL ANL  
TEMP 1900F ( 1037C)  
TIME (CONT FCE) 1.46 HOURS  
QUENCH AIR

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW - 341 (MIDRADIUS)

MICROSTRUCTURE - FERRITE - NONE  
MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

CONTINUED ON NEXT PAGE

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CERTIFICATE OF TESTS  
CERT SERIAL# 000681003

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

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01/30/09

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

ASA ALLOYS DIV. / CSM INC.  
4311-92ND AVE.  
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T6B 3M7 , CANADA

TALLEY METALS TECH, INC.

ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE , SC 29551

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
077548-AG	TLY952201 L14967	01/30/09	992.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:  
CAPABILITY

G15282

900 F ( 482 C ), 01 HR

AIR COOL

YIELD STRENGTH, (0.20 %) KSI (MPA)	186.0 ( 1282 )
TENSILE STRENGTH, KSI (MPA)	207.0 ( 1427 )
ELONGATION IN 2.00", %	13.0
REDUCTION OF AREA, %	46.0
HARDNESS , HBW	409.0

( CONVERTED FROM TENSILE STRENGTH )

NO WELD REPAIR PERFORMED  
MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.  
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-  
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1.  
WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE  
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS  
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1B OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM  
QUALITY ASSURANCE ENGINEER  
CARPENTER TECHNOLOGY CORPORATION

*Stephanie E. McCullum*

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